

MODIS TECHNICAL TEAM MEETING

**Building 33, Room E125
January 6, 2000**

Vince Salomonson chaired the MODIS Technical Team Meeting. Present were Ken Anderson, Bill Barnes, Mark Domen, Wayne Esaias, Al Fleig, Bruce Guenther, Dorothy Hall, Chris Justice (via teleconference), Steve Kemppler, Michael King, Gene Legg (NOAA), Harry Montgomery, Bob Murphy, Mike Roberto, and Eric Vermote, with Deborah Howard recording the minutes.

1.0 SCHEDULE OF EVENTS

COSPAR 2000 Abstracts due	January 10, 2000
IRS 2000 Abstracts due	January 15, 2000 (Deadline extended)
EOS-IWG Tucson, AZ	April 11-13, 2000
AGU 2000 Spring Meeting Washington, DC	May 30-June 3, 2000
COSPAR 2000 Warsaw, Poland	July 16-23, 2000
COSPAR/IRS Joint Symposium Warsaw, Poland and St. Petersburg, Russia	July 21 and July 24, 2000
IGARSS 2000 Honolulu, HI	July 24-28, 2000
IRS-2000 St. Petersburg, Russia.	July 24-29, 2000
VENICE-2000 (Oceans from Space) Venice, Italy	October 9-13, 2000
EOS-PM Launch	December 21, 2000

2.0 MINUTES OF THE MEETING

2.1 Instrument Report

Mike Roberto reported that Terra is in outgassing mode for approximately 2 weeks. The space view door was briefly opened and then closed to the outgassing position (within 1 to 2 inches of being sealed). The MODIS instrument will likely be turned on about January 17, 2000 to begin engineering

and characterization testing. The NADIR Aperture Door is scheduled to be opened after January 31, 2000 to begin acquisition of the geophysical science data set.

Only the subsystem called control processor, and the radiative cooler outgas heaters are on for MODIS at the present time. The Terra Project is performing analysis on the high gain antenna system and may establish a criteria to turn it off whenever the spacecraft is over the South Atlantic Anomaly (SAA). The high gain antenna feeding data to TDRSS is the primary science data transmission mode. These changes being considered will have no significant impact of the Terra science mission. Spacecraft health and safety is being maintained through communications using the spacecraft omni antenna. The first of four orbit velocity adjustments thruster burns, called delta-V maneuvers, is now scheduled for January 11 or 12, and the work on the high gain antenna system is not expected to have a negative impact of the delta-V burns.

Bruce Guenther reported that MCST has a weekly planning meeting and he plans to coordinate with the MODIS Science Team in part by reporting on the upcoming week's schedule at the Technical Team meetings.

Ken Anderson announced that Mark Domen is now the MODIS Technical Officer with Anderson as alternate. Anderson continues as the Aqua Instrument Systems Manager and Domen continues as the MODIS Instrument Manager.

2.2 GDAAC

Steve Kempler reviewed GDAAC Notes for the MODIS Technical Team Meeting dated 1/6/2000 (see Attachment 1). He said that as far as ECS is concerned there are no Y2K problems at the DAAC. The GDAAC is exercising the system and they are trying to make it less manual and more automated. When DCE is fixed, additional J-day like, joint testing with the DAAC and MODAPS is planned. The DAAC is now testing post-launch PGE's.

ECS Drop 5A.03 is in operational and test modes at the DAAC. Kempler said he would consult the MODIS team before installing Drop 5A.04. It is due at the end of January. However, he would like to keep the system stable, rather than risking challenges with installing the next ECS Drop at that time. Esaias pointed out that effective public distribution of Ocean products is very dependent upon having 5A.04 operational.

2.3 MODIS PI Processing

Chris Justice reported that the first weekly PI Processing meeting was held yesterday, January 5, 2000. The format is changing to focus on weekly Level 2 and 3 operations and production issues, with L1 issues moving to the L1 working group. There will be more DAAC involvement in the newly formatted group as MODIS goes to production mode. The overall plan is to get the timing set so that information from both of these groups is reported and/or discussed at the weekly Technical Team meetings. Justice observed that the Disciplines and MCST seem to be working closely and cooperatively.

2.4 Early Images

The group discussed the focus on producing early images. Murphy said that the tentative Terra release schedule is focused on scheduling a press conference at the IWG in April (at about L+113) or alternately at a SWAMP meeting around March 2 or 3 (L+77). Guenther commented that we are running about 2 to 3 weeks behind schedule regarding the spacecraft. Murphy and Salomonson are tracking the early product release progress. Murphy said he would like to provide data about a week after MCST is able to produce real data.

2.5 Discipline Reports

Michael King reported that field experiments are planned between February 15 and March 12. These include the ARM site in Oklahoma to support Paul Menzel's work and two sites in Minnesota and North Dakota to support Dorothy Hall's work. The plane is scheduled to return on March 13. Three to four deep space maneuvers, which take about 25 hours each, are tentatively scheduled around March 7 (L+80). The group discussed avoiding deep space maneuvers from February 15 through March 13.

Wayne Esaias reported that Dennis Clark is planning to change the buoy out on February 15 and that he would extend that cruise 3 days. Esaias said that the Oceans group is working for a full MODIS cruise on April 15 through May 2, 2000. He also reported that the Oceans Web page is up and running and has been linked to the MODIS Web site.

Oceans is receiving inquiries asking for the db test schedule and turn on date for direct broadcast. The db Web page is very out of date. Bob Murphy said there is no set date for commencing db operations, and the date has to be factored into the policy under discussion for early data release. That would necessitate db turn on after the Terra press conference, for which the date is still TBD. Murphy was made the point of contact for MODIS on setting the db turn on date.

Chris Justice said that the Land group has had a very enthusiastic response to the IGARSS 2000 meeting, with many MODIS Land scientists submitting abstracts for the meeting. King said he was focusing on the COSPAR 2000 meeting and COSPAR/IRS Joint Symposium that is being held at the same time as IGARSS 2000 (see section 1.0, Schedule of Events, for meeting dates and locations).

2.6 NOAA

Gene Legg said that NOAA could live with the small data gaps caused by TDRSS contact synchronization rather than wait for Level 0 from EDOS to fill in the gaps and would prefer not to wait for Level 0 data.

2.7 MAST

Throughout the Technical Team meeting, the group discussed the need for timely, brief updates regarding the instrument, data products, and other MODIS news on the MODIS Web site. Justice said that he is working with Michael Hohner in developing a mall map or diagram of the various MODIS-related Web sites with links from the MODIS home page. Michael King commented that the EOS Validation page includes a master schedule (see

<http://eospso.gsfc.nasa.gov/validation/valpage.html>). Salomonson asked that Hohner make it a priority to obtain the latest MODIS information and updates and list these on the MODIS Web page.

3.0 ACTION ITEMS

3.1 Action Items Carried Forward

1. Kempler and Masuoka: Present to the Technical Team an agreed upon volume for MODIS Q/A data distribution.

Status: This item remains open.

2. Hohner, Fleig, and Masuoka: Include a space for MODIS early images on the MODIS home Web site. After launch, it would include downloadable early images on the MODIS site and a link to the DAAC's for obtaining products and data. The TRMM and SeaWiFS Web pages and how they process and present images can be used as good examples.

Status: This item remains open.

3. Legg: Find out when and how NASA MODIS representatives will be integrated into the NOAA review process and report on status to the MODIS Technical Team. NOAA has agreed to have MODIS representatives serve on the NESDIS data product review boards (Product Oversight Panel). However, MODIS representatives have not yet been invited to participate in an advisory panel.

Status: This item remains open. At the October 20 MODIS Technical Team meeting, Dan Tarpley suggested asking Eric Vermote to represent the Land group, and asked Oceans and Atmosphere groups to suggest representatives. Esaias volunteered to represent Oceans. King said the Atmosphere group will be represented by Bill Ridgway (see Closed Action Items, #1, below).

4. Masuoka: Submit an EOS-PM Data Product Update to ESDIS.

Status: This action item remains open.

3.2 Closed Action Items

1. Hohner and Howard: Develop a weekly MODIS news page linked to the MODIS home Web site. It should include hot items and reflect weekly progress.

Status: This item is closed. The Latest News link on the MODIS home page leads to current MODIS news sections. The MODIS PFM Instrument link includes Terra Mission Status, Key Events Timeline, MODIS Instrument Reports, and Schedules. Suggestions for other MODIS-specific news are welcomed and encouraged.

2. King: Identify an Atmospheres representative to the NOAA Product Oversight

Panels.

Status: This item is closed. The Atmosphere representative will be Bill Ridgway.